

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1-9. (Canceled)

10. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the electro-optical device,

wherein the illumination optical system comprises a polarized light generation section for emitting a predetermined polarized light,

the polarized light generation section comprising:

an optical component for dividing an incident light into two different polarized lights; and

a selective retardation plate for adjusting one of the two polarized lights output from the optical component to the other,

the optical component comprising:

a plurality of rock crystal members composed of rock crystal and arrayed in a predetermined direction; and

a polarization separation film and a reflection film that are alternately arranged on interfaces of the plurality of rock crystal members.

11. (Previously Presented) A projector comprising:

an illumination optical system for emitting a light;

an electro-optical device for modulating the light emitted from the illumination optical system in response to image information; and

a projection optical system for projecting a modulated light generated by the electro-optical device,

wherein the illumination optical system comprises a polarized light generation section for emitting a predetermined polarized light,

the polarized light generation section comprising:

an optical component for dividing an incident light into two different polarized lights; and

a selective retardation plate for adjusting one of the two polarized lights output from the optical component to the other,

the optical component comprising:

a rock crystal member composed of rock crystal; and

a polarization separation film formed on the rock crystal member.

12-19. (Canceled)

20. (New) The projector in accordance with claim 10,

wherein each of the plurality of rock crystal members is disposed in such a manner that a Z axis of the rock crystal is substantially perpendicular to a center axis of a light passing through the each rock crystal member and the Z axis of the rock crystal is set to be substantially parallel to a surface of the each rock crystal member.

21. (New) The projector in accordance with claim 11,

wherein the rock crystal member is disposed in such a manner that a Z axis of the rock crystal is substantially perpendicular to a center axis of a light passing through the rock crystal member and the Z axis of the rock crystal is set to be substantially parallel to a surface of the rock crystal member.

22. (New) The projector in accordance with claim 11,  
wherein the rock crystal member is disposed in such a manner that a Z  
axis of the rock crystal is substantially parallel to a center axis of a light passing through the  
rock crystal member and the Z axis of the rock crystal is set to be substantially perpendicular  
to a surface of the rock crystal member.